



SEQUENCE LISTING

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FRAME, BRONWYN R.

<120> METHODS AND COMPOSITIONS FOR ENHANCED PLANT CELL
TRANSFORMATION

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<151> 1999-09-15

<160> 40

<170> PatentIn Ver. 3.3

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agggaaagct ggaaactggg tgatatcaga taatgcttag gattgttttt tttttcattt 540
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attcaatggc ttcaatacaa gtgctaatag gtttggcttt agccatgggt tctgcaagtg 720
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<212> DNA

<213> Arabidopsis thaliana

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aagaacagag tttctgcaca tagtagtgtt ggtgcgactg atgttgtcta catgacttca 180
atccttgaat acctaactac agaggttctt cagttggccg aaaacactag caaagattta 240
aaagtgaaga ggataactcc aaggcatttg cagttggcga tcagaggaga tgaagagctt 300
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<212> DNA

<213> Arabidopsis thaliana

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cggaacttgt aaaatagacc ctgatggtgt tttttgggga tcaaattagg ttttaaagct 660
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<213> Arabidopsis thaliana

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<212> DNA

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Ala Arg Phe Leu Lys Ala Gly Lys Tyr Ala Glu Arg Val Gly Ala Gly
      35             40             45

Ala Pro Val Tyr Leu Ala Ala Val Leu Glu Tyr Leu Ala Ala Glu Val
      50             55             60

Leu Glu Leu Ala Gly Asn Ala Ala Arg Asp Asn Lys Lys Thr Arg Ile
      65             70             75             80

Val Pro Arg His Ile Gln Leu Ala Val Arg Asn Asp Glu Glu Leu Ser
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Lys Leu Leu Gly Asp Val Thr Ile Ala Asn Gly Gly Val Met Pro Asn
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Glu Asp
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 35 40 45

Ala Pro Val Tyr Leu Ala Ala Val Leu Glu Tyr Leu Ala Ala Glu Val
 50 55 60

Leu Glu Leu Ala Gly Asn Ala Ala Arg Asp Asn Lys Lys Thr Arg Ile
 65 70 75 80

Val Pro Arg His Ile Gln Leu Ala Val Arg Asn Asp Glu Glu Leu Ser
 85 90 95

Lys Leu Leu Gly Asp Val Thr Ile Ala Asn Gly Gly Val Met Pro Asn
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 35 40 45

Glu Arg Val Gly Ala Gly Ala Pro Val Tyr Leu Ser Ala Val Leu Glu
 50 55 60

Tyr Leu Ala Ala Glu Val Leu Glu Leu Ala Gly Asn Ala Ala Arg Asp
 65 70 75 80
 Asn Lys Lys Thr Arg Ile Val Pro Arg His Ile Gln Leu Ala Val Arg
 85 90 95
 Asn Asp Glu Glu Leu Ser Lys Leu Leu Gly Ser Val Thr Ile Ala Asn
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 Lys Val Lys Arg Ile Thr Pro Arg His Leu Gln Leu Ala Ile Arg Gly
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 Tyr Leu Ala Ala Glu Val Leu Glu Leu Ala Gly Asn Ala Ala Arg Asp
 65 70 75 80
 Asn Lys Lys Thr Arg Ile Val Pro Arg His Ile Gln Leu Ala Val Arg
 85 90 95
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 Leu Glu Tyr Leu Ala Ala Glu Val Leu Glu Leu Ala Gly Asn Ala Ala
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 Arg Asp Asn Lys Lys Ser Arg Ile Ile Pro Arg His Leu Leu Leu Ala
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 Ile Arg Asn Asp Glu Glu Leu Gly Lys Leu Leu Ser Gly Val Thr Ile
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Lys Ser Pro Lys Lys Ala
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<213> Arabidopsis thaliana

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65 70 75 80
Ala Arg Asp Asn Lys Lys Asn Arg Ile Asn Pro Arg His Leu Cys Leu
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Ala Ile Arg Asn Asp Glu Glu Leu Gly Arg Leu Leu His Gly Val Thr
100 105 110
Ile Ala Ser Gly Gly Val Leu Pro Asn Ile Asn Pro Val Leu Leu Pro
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 65 70 75 80
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 85 90 95
 His Leu Gln Leu Ala Ile Arg Gly Asp Glu Glu Leu Asp Thr Leu Ile
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 35 40 45

Ala Pro Val Tyr Leu Ala Ala Val Leu Glu Tyr Leu Ala Ala Glu Val
 50 55 60

Leu Glu Leu Ala Gly Asn Ala Ala Arg Asp Asn Lys Lys Thr Arg Ile
 65 70 75 80

Val Pro Arg His Ile Gln Leu Ala Val Arg Asn Asp Glu Glu Leu Ser
 85 90 95

Lys Leu Leu Gly Asp Val Thr Ile Ala Asn Gly Gly Val Met Pro Asn
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Lys Thr Arg Val Ser Ala His Gly Arg Val Gly Ala Thr Ala Ala Val
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Tyr Thr Ala Ser Ile Leu Glu Tyr Leu Thr Ala Glu Val Leu Glu Leu
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Ala Gly Asn Ala Ser Lys Asp Leu Lys Val Lys Arg Ile Thr Pro Arg
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His Leu Gln Leu Ala Ile Arg Gly Asp Glu Glu Leu Asp Thr Leu Ile
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65 70 75 80
Arg Asp Asn Lys Lys Asn Arg Ile Ile Pro Arg His Val Leu Leu Ala
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Val Arg Asn Asp Glu Glu Leu Gly Thr Leu Leu Lys Gly Val Thr Ile
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Ala His Gly Gly Val Leu Pro Asn Ile Asn Pro Ile Leu Leu Pro Lys
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35 40 45

Ala Pro Val Tyr Leu Ala Ala Val Leu Glu Tyr Leu Ala Ala Glu Val
50 55 60

Leu Glu Leu Ala Gly Asn Ala Ala Arg Asp Asn Lys Lys Thr Arg Ile
65 70 75 80

Val Pro Arg His Ile Gln Leu Ala Val Arg Asn Asp Glu Glu Leu Ser
85 90 95

Lys Leu Leu Gly Asp Val Thr Ile Ala Asn Gly Gly Val Met Pro Asn
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<210> 28

<211> 1677

<212> DNA

<213> Arabidopsis thaliana

<400> 28

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 <211> 1903
 <212> DNA
 <213> *Arabidopsis thaliana*

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 <211> 1609
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 <213> *Arabidopsis thaliana*

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<210> 31

<211> 2148

<212> DNA

<213> *Arabidopsis thaliana*

<400> 31

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<211> 1621

<212> DNA

<213> *Arabidopsis thaliana*

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1621

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<210> 33

<211> 1487

<212> DNA

<213> *Arabidopsis thaliana*

<400> 33

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<210> 34

<211> 1740

<212> DNA

<213> Arabidopsis thaliana

<400> 34

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<210> 35

<211> 2151

<212> DNA

<213> Arabidopsis thaliana

<400> 35

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<210> 36

<211> 1883

<212> DNA

<213> Arabidopsis thaliana

<400> 36

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```

<210> 37

<211> 1438

<212> DNA

<213> Arabidopsis thaliana

<400> 37

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<210> 38

<211> 1901

<212> DNA

<213> Arabidopsis thaliana

<400> 38

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<210> 39

<211> 1733

<212> DNA

<213> Arabidopsis thaliana

<400> 39

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<210> 40

<211> 1438

<212> DNA

<213> *Arabidopsis thaliana*

<400> 40

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